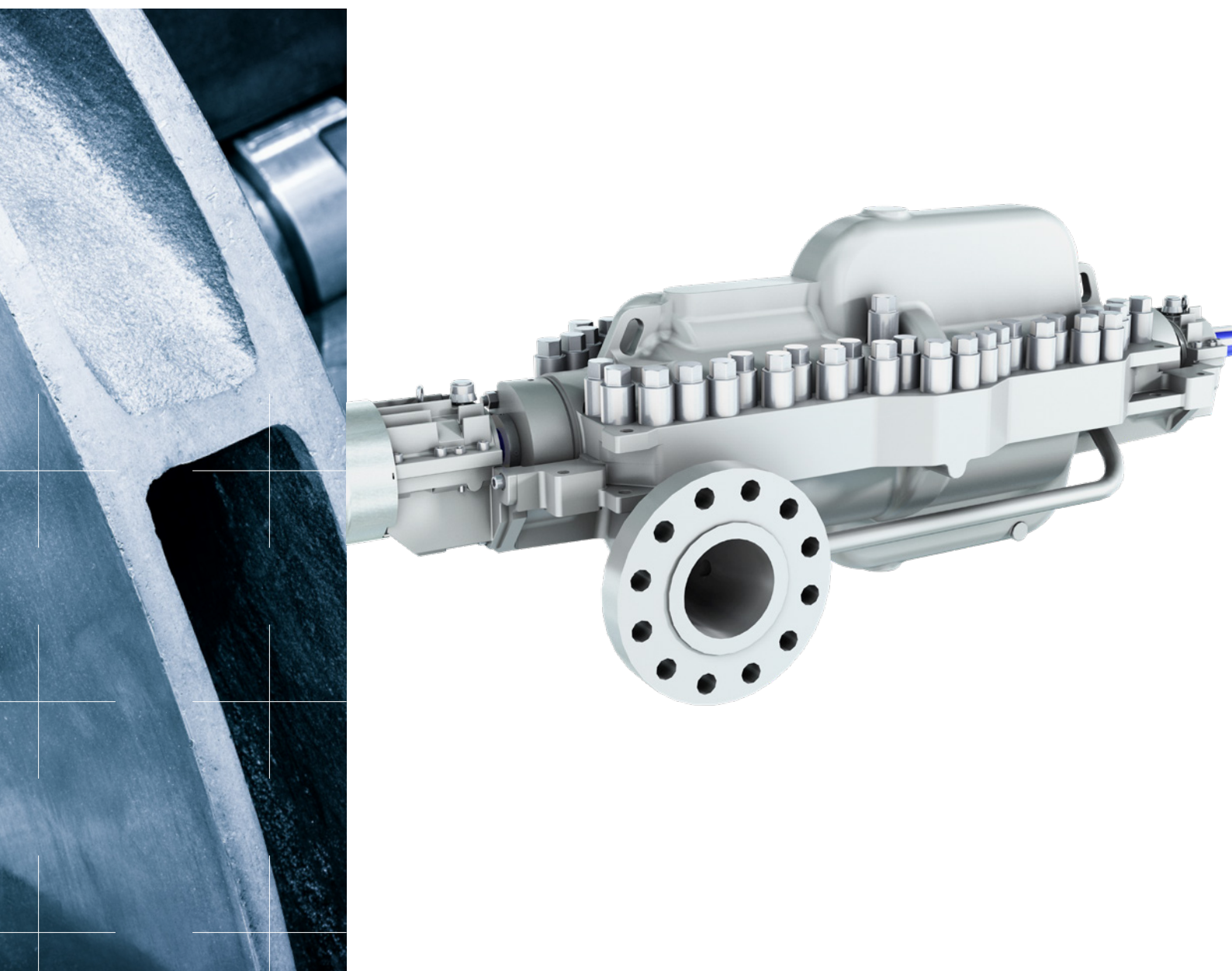
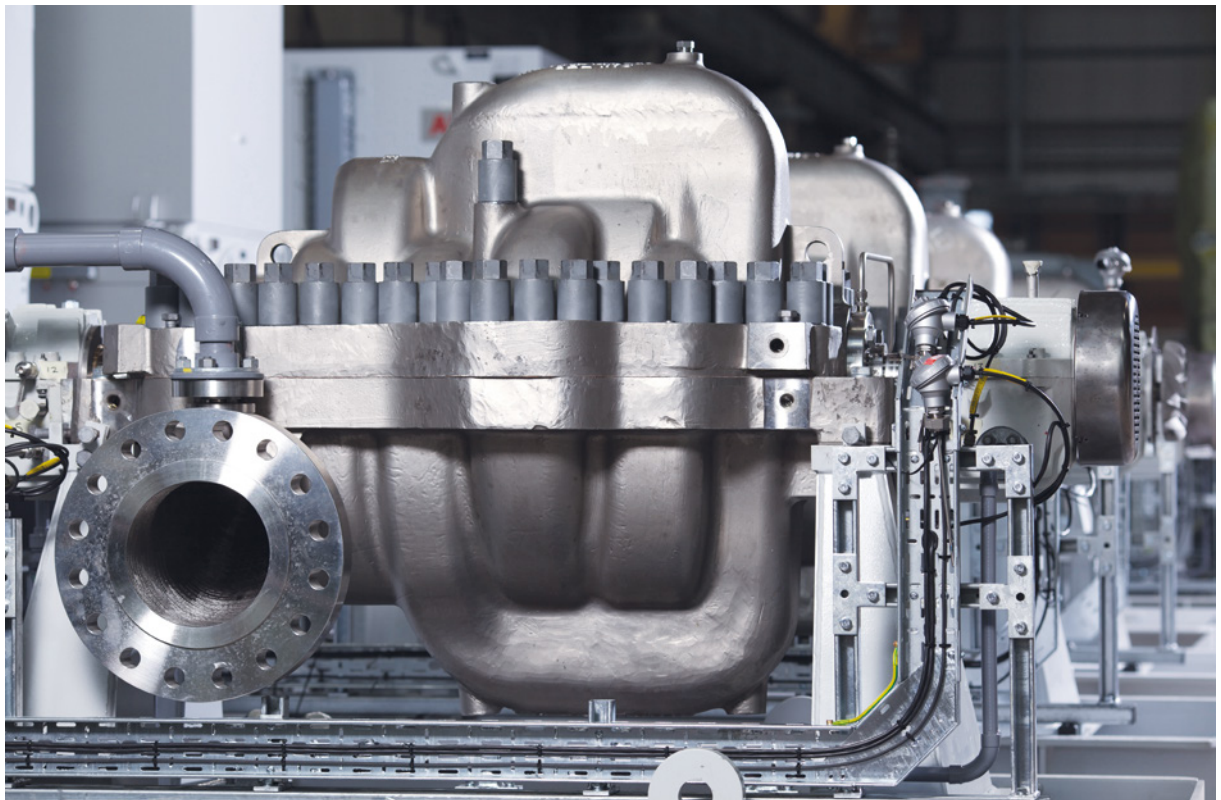


MSD axially split multistage pump



Main industries and applications

- Boiler feed in all industries; auxiliary feed in nuclear power
- Reverse osmosis feed
- Offshore crude oil shipping
- Refined product pipeline
- Supercritical Liquefied Petroleum Gas (LPG), Ethylene and CO₂ compressible services down to 0.25 sp.gr.



- Shrink fit, precision cast, dynamically balanced and individually secured

- Simplifies rotor balancing, inspection and installation, case passageway inspection and modification, and spare rotor retrofits
- Support is near centerline for alignment
- Full range of design pressures to suit applications

- Stepped for ease of assembly
- Sized to satisfy rotor dynamics and power transmission with worn clearances
- Optimized for hydraulic performance

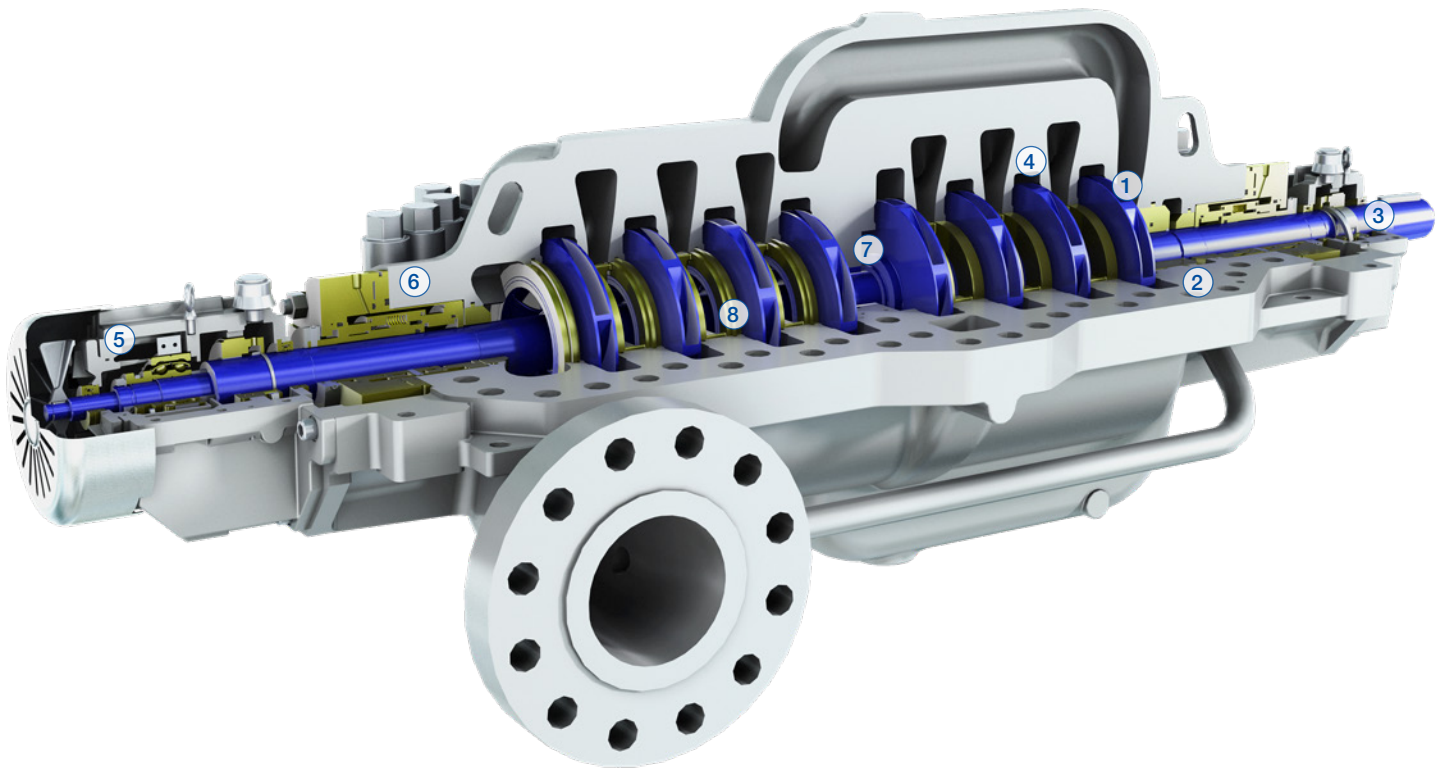
- Minimum radial thrust for less shaft deflection and less bearing loading

- Ball radial and 7300 series ball thrust bearings are standard; sleeve/ball and sleeve/pivot shoe bearings are optional. INPRO™ isolators are standard

- Easy access for maintenance
- Space for tandem and double mechanical seals
- Compliance with ISO-13709 (API610) dimensions

- Facilitates rotor dynamic balance, inspection, removal and replacement

- Pinned and axially retained impeller and case wear rings are standard



Specifications

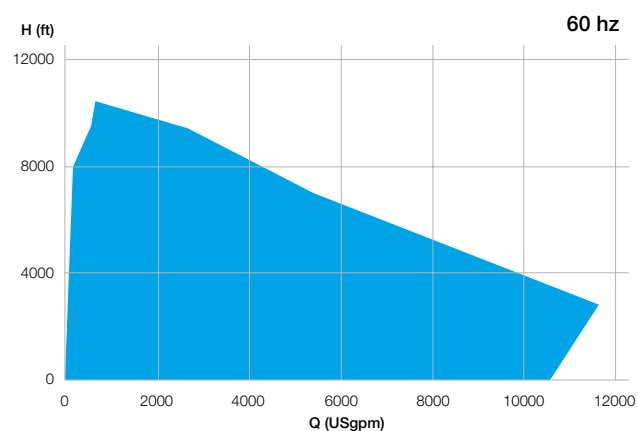
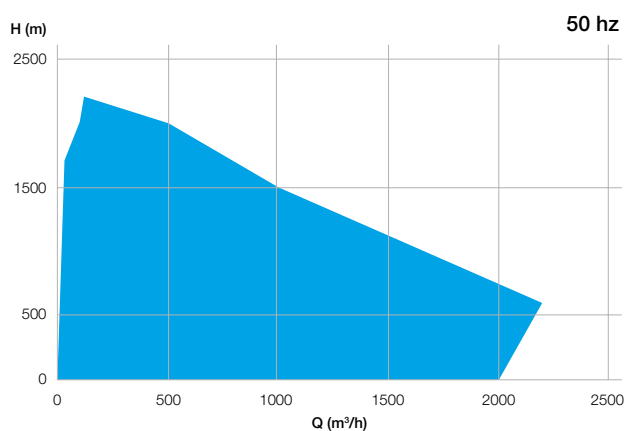
Material options

API 610 material codes: S-5, S-6, S-8, C-6, A-8, D-1, D-2

Operating data

	50 Hz	60 Hz
Pump sizes	80 to 400 mm	80 to 400 mm
Capacities	up to 3'200 m ³ /h	up to 3'200 m ³ /h
Heads	up to 2'900 m	up to 2'900 m
Pressures	up to 300 bar	up to 300 bar
Temperatures	up to 200°C	up to 200°C
Max. speed of rotation	over 6'000 rpm	over 6'000 rpm

Performance range





We keep your processes flowing

Wherever fluids are treated, pumped, or mixed, we deliver highly innovative and reliable solutions for the most demanding applications.

Our offer

The Flow Equipment division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders, screens and filters developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.



Pumps

As one of the world's leading pump manufacturers, Sulzer provides a wide range of products for engineered, configured, and standard pumping solutions as well as essential auxiliary equipment. We are renowned for our state-of-the-art products, performance reliability and efficient solutions.



Agitators and dynamic mixers

Sulzer mixing and agitation technology offers a wide range of products for industrial applications. Side-mounted horizontal and top-mounted vertical agitators, dynamic chemical mixers, and tower and tank flow management products guarantee effective mixing and agitating processes.



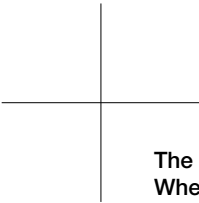
Compressors and aeration

Sulzer's state of the art offering for municipal and industrial wastewater treatment includes turbocompressors, aeration systems and mechanical aerators. Our application and process know-how combined with our unique product portfolio give us the means to provide customers with reliable and efficient solutions.



Submersible mixers

Sulzer's energy efficient submersible mixers are suitable for a wide range of applications in industry and municipal treatment plants. They provide the right solution to match mixing tasks for agitating, blending, mixing, dissolving and suspension of solids in industry and municipal treatment plants.



The Sulzer Flow Equipment division keeps your processes flowing. Wherever fluids are treated, pumped, or mixed, we deliver highly innovative and reliable solutions for the most demanding applications.

The Flow Equipment division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders, screens and filters developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.

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